

1. A system for modular construction comprising:
 - (A) a plurality of structural members, each of said plurality of structural members comprising:
 - (1) a first lengthwise side and a second lengthwise side opposite said first lengthwise side, each of side lengthwise sides being generally parallel to each other;
 - (2) a first widthwise side and a second widthwise side opposite said first widthwise side, each of said widthwise sides being generally parallel to each other;
 - (3) at least two slots along one of said lengthwise sides, each of said slots comprising:
 - (a) a pair of generally parallel slot sides;
 - (b) an open end along one of said lengthwise sides;
 - (c) a slot axis parallel to and disposed equally between said slot sides;
- wherein a first outside slot is located nearest to the first widthwise side and a second outside slot is located nearest to the second widthwise side; and
- wherein the distance between the slot axis of the first outside slot and the first widthwise side is a predetermined slot-to-side distance and the distance between the slot axis of the second outside slot and the second widthwise side is a whole-number multiple of the predetermined slot-to-side distance; and
- wherein the distance between each of the slot axes of the at least two slots along one of said lengthwise sides is a whole-number multiple of the predetermined slot-to-side distance; and

wherein each of said plurality of structural members is adapted to be detachably connected slot-to-slot to each of the other of said plurality of structural members.

2. The system for modular construction of Claim 1 wherein each of said slots has a substantially equal slot depth.
3. The system for modular construction of Claim 1 wherein the distance between the slot axis of the second outside slot and the second widthwise side is equal to the predetermined slot-to-side distance.
4. The system for modular construction of Claim 1 wherein at least one of said structural members includes a slot along the lengthwise side opposite the lengthwise side having at least two slots.
5. The system for modular construction of Claim 1 wherein at least one of said structural members includes a slot along the first widthwise side.
6. The system for modular construction of Claim 1 wherein at least one of said structural members includes a slot along the first widthwise side and the second widthwise side.
7. The system for modular construction of Claim 1 wherein at least one of said structural members includes a slot along the lengthwise side opposite the lengthwise side having at least two slots, the first widthwise side and the second widthwise side.

8. The system for modular construction of Claim 1 wherein at least one of said structural members includes at least two slots along the first lengthwise side of said structural member and at least two slots along the second lengthwise side of said structural member;
- wherein a first lengthwise side first outside slot is located adjacent to the first widthwise side, a first lengthwise side second outside slot is located adjacent to the second widthwise side, a second lengthwise side first outside slot is located adjacent to the first widthwise side, and a second lengthwise side second outside slot is located adjacent to the second widthwise side; and
- wherein the distance between the slot axis of the first lengthwise side first outside slot and the first widthwise side is a first predetermined slot-to-side distance, the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between the slot axis of the second lengthwise side first outside slot and the first widthwise side is a second predetermined slot-to-side distance, and the distance between the slot axis of the second lengthwise side second outside slot and the second widthwise side is a whole-number multiple of the second predetermined slot-to-side distance; and
- wherein the distance between each of the slot axes of the at least two slots along the first lengthwise side is a whole-number multiple of the first predetermined slot-to-side distance, and the distance between each of the slot axes of the at least two slots along the

second lengthwise side is a whole-number multiple of the second predetermined slot-to-side distance; and

wherein each of said plurality of structural members is adapted to be detachably connected slot-to-slot to each of the other of said plurality of structural members.

9. The system for modular construction of Claim 8 wherein the first predetermined slot-to-side distance is equal to the second predetermined slot-to-side distance.
10. The system for modular construction of Claim 8 wherein the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is equal to the first predetermined slot-to-side distance, and the distance between the slot axis of the second lengthwise side second outside slot and the second widthwise side is equal to the second predetermined slot-to-side distance.
11. The system for modular construction of Claim 1 wherein at least one of said structural members includes at least two slots along the first lengthwise side and at least two slots along the first widthwise side,
wherein a first lengthwise side first outside slot is located adjacent to the first widthwise side, a first lengthwise side second outside slot is located adjacent to the second widthwise side, a first widthwise side first outside slot is located adjacent to the first lengthwise side, and a first widthwise side second outside slot is located adjacent to the second lengthwise side; and

wherein the distance between the slot axis of the first lengthwise side first outside slot and the first widthwise side is a first predetermined slot-to-side distance, the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side first outside slot and the first lengthwise side is a second predetermined slot-to-side distance, and the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is a whole-number multiple of the second predetermined slot-to-side distance; and

wherein the distance between each of the slot axes of the at least two slots along the first lengthwise side is a whole-number multiple of the first predetermined slot-to-side distance, and the distance between each of the slot axes of the at least two slots along the first widthwise side is a whole-number multiple of the second predetermined slot-to-side distance; and

wherein each of said plurality of structural members is adapted to be detachably connected slot-to-slot to each of the other of said plurality of structural members.

12. The system for modular construction of Claim 11 wherein the first predetermined slot-to-side distance is equal to the second predetermined slot-to-side distance.
13. The system for modular construction of Claim 11 wherein the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is equal to the second predetermined slot-to-side distance.

14. The system for modular construction of Claim 1 wherein at least one of said structural members includes at least two slots along the first lengthwise side, at least two slots along the first widthwise side, and at least two slots along the second widthwise side; wherein a first lengthwise side first outside slot is located adjacent to the first widthwise side, a first lengthwise side second outside slot is located adjacent to the second widthwise side, a first widthwise side first outside slot is located adjacent to the first lengthwise side, a first widthwise side second outside slot is located adjacent to the second lengthwise side, a second widthwise side first outside slot is located adjacent to the first lengthwise side, and a second widthwise side second outside slot is located adjacent to the second lengthwise side; and wherein the distance between the slot axis of the first lengthwise side first outside slot and the first widthwise side is a first predetermined slot-to-side distance, the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side first outside slot and the first lengthwise side is a second predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is a whole-number multiple of the second predetermined slot-to-side distance, the distance between the slot axis of the second widthwise side first outside slot and the first lengthwise side is a third predetermined slot-to-side distance, and the distance between the slot axis of the second widthwise side second outside slot and the second lengthwise side is a whole-number multiple of the third slot-to-side distance; and

wherein the distance between each of the slot axes of the at least two slots along the first lengthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between each of the slot axes of the at least two slots along the first widthwise side is a whole-number multiple of the second predetermined slot-to-side distance, and the distance between each of the slot axes of the at least two slots along the second widthwise side is a whole-number multiple of the third predetermined slot-to-side distance; and

wherein each of said plurality of structural members is adapted to be detachably connected slot-to-slot to each of the other of said plurality of structural members.

15. The system for modular construction of Claim 14 wherein the second predetermined slot-to-side distance is equal to the third predetermined slot-to-side distance.
16. The system for modular construction of Claim 14 wherein the first predetermined slot-to-side distance is equal to the second predetermined slot-to-side distance and the third predetermined slot-to-side distance.
17. The system for modular construction of Claim 14 wherein the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is equal to the first predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is equal to the second predetermined slot-to-side distance, and the distance between the slot axis of the

second widthwise side second outside slot and the second lengthwise side is equal to the third predetermined slot-to-side distance.

18. The system for modular construction of Claim 1 wherein at least one of said structural members includes at least two slots along the first lengthwise side, at least two slots along the second lengthwise side, at least two slots along the first widthwise side, and at least two slots along the second widthwise side;
- wherein a first lengthwise side first outside slot is located adjacent to the first widthwise side, a first lengthwise side second outside slot is located adjacent to the second widthwise side, a second lengthwise side first outside slot is located adjacent to the first widthwise side, a second lengthwise side second outside slot is located adjacent to the second widthwise side, a first widthwise side first outside slot is located adjacent to the first lengthwise side, a first widthwise side second outside slot is located adjacent to the second lengthwise side, a second widthwise side first outside slot is located adjacent to the first lengthwise side, and a second widthwise side second outside slot is located adjacent to the second lengthwise side; and
- wherein the distance between the slot axis of the first lengthwise side first outside slot and the first widthwise side is a first predetermined slot-to-side distance, the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between the slot axis of the second lengthwise side first outside slot and the first widthwise side is a second predetermined slot-to-side distance, the distance between the slot axis of the second lengthwise side second outside slot and the second

widthwise side is a whole-number multiple of the second predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side first outside slot and the first lengthwise side is a third predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is a whole-number multiple of the third predetermined slot-to-side distance, the distance between the slot axis of the second widthwise side first outside slot and the first lengthwise side is a fourth predetermined slot-to-side distance, and the distance between the second widthwise side second outside slot and the second lengthwise side is a whole-number multiple of the fourth slot-to-side distance; and wherein the distance between each of the slot axes of the at least two slots along the first lengthwise side is a whole-number multiple of the first predetermined slot-to-side distance, the distance between each of the slot axes of the at least two slots along the second lengthwise side is a whole-number multiple of the second predetermined slot-to-side distance, the distance between each of the slot axes of the at least two slots along the first widthwise side is a whole-number multiple of the third predetermined slot-to-side distance, and the distance between each of the slot axes of the at least two slots along the second widthwise side is a whole-number multiple of the fourth predetermined slot-to-side distance; and wherein each of said plurality of structural members is adapted to be detachably connected slot-to-slot to each of the other of said plurality of structural members.

19. The system for modular construction of Claim 18 wherein the first predetermined slot-to-side distance is equal to the second predetermined slot-to-side distance, the third predetermined slot-to-side distance and the fourth predetermined slot-to-side distance.
20. The system for modular construction of Claim 18 wherein the distance between the slot axis of the first lengthwise side second outside slot and the second widthwise side is equal to the first predetermined slot-to-side distance, the distance between the slot axis of the second lengthwise side second outside member and the second widthwise side is equal to the second predetermined slot-to-side distance, the distance between the slot axis of the first widthwise side second outside slot and the second lengthwise side is equal to the third predetermined slot-to-side distance, and the distance between the slot axis of the second widthwise side second outside slot and the second lengthwise side is equal to the fourth predetermined slot-to-side distance.